## An Examination of the Clear-Sky Solar Irradiances and Albedo Over the Ocean Surface at the COVE Site: Observations Versus Models

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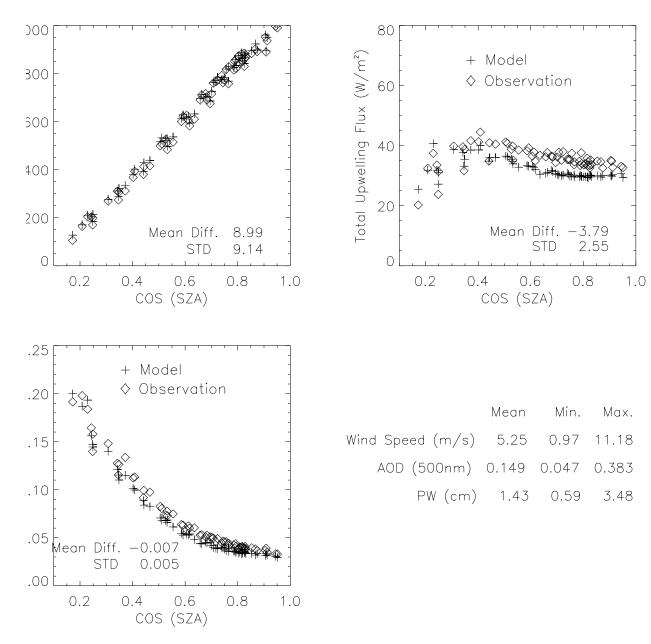
Thomas Charlock Atmospheric Sciences Division NASA Langley Research Center Hampton, VA 23681 A whole year (3/1, 2000 -- 3/1, 2001) of measurement data for the downwelling and upwelling irradiances over the ocean surface at the Chesapeake Bay have been analyzed and compared with model calculations.

The coupled radiative transfer model for the atmosphere-ocean system (Jin and Stamnes, 1994) is used for the calculations.

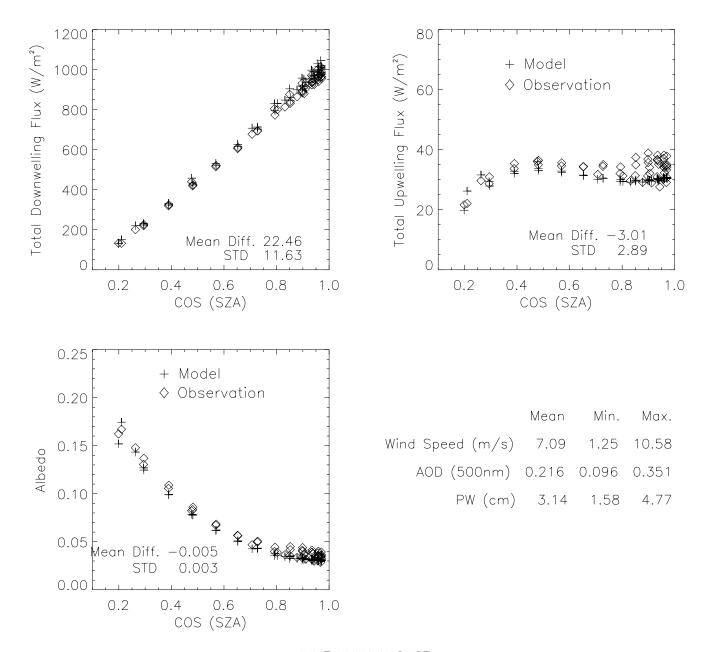
The AOD and PW are from AERONET (Cimel) measurements.

The wind speed is also from in situ observation. The chlorophyll concentration is based on monthly averaged observation data.

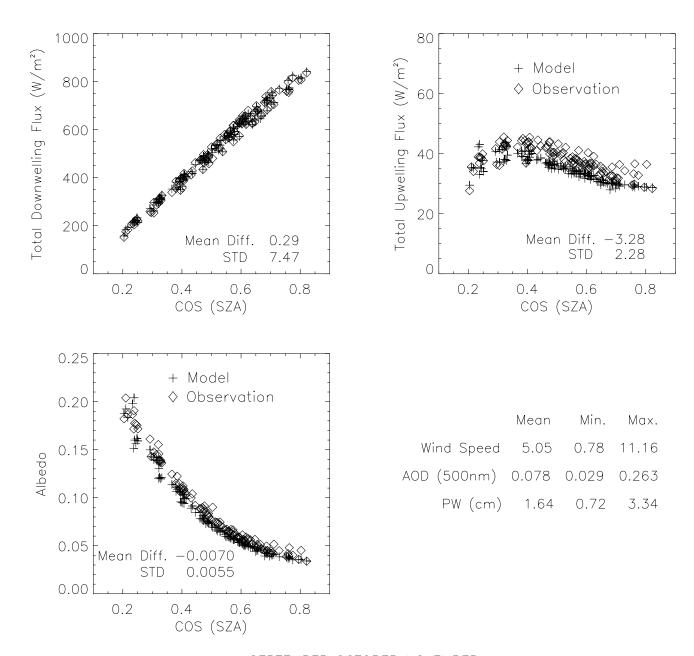
The Cloud screening is based on the Long and Ackerman (2000) algorithm.



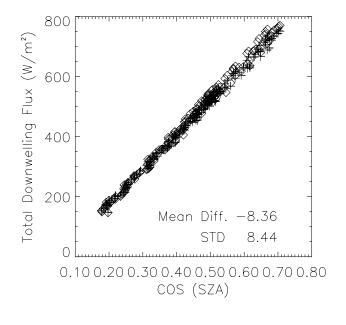
MARCH APRIL MAY

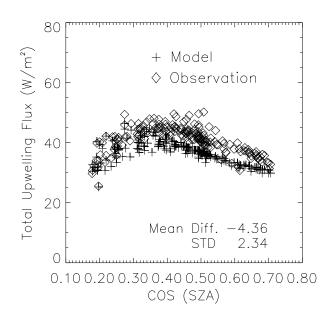


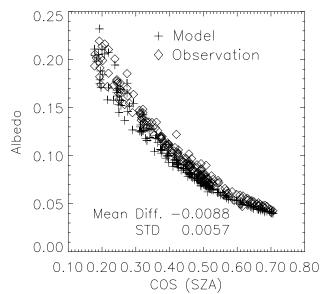
JUNE JULY AUGUST

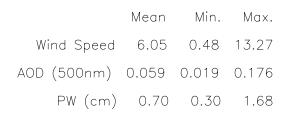


SEPTEMBER OCTOBER NOVEMBER

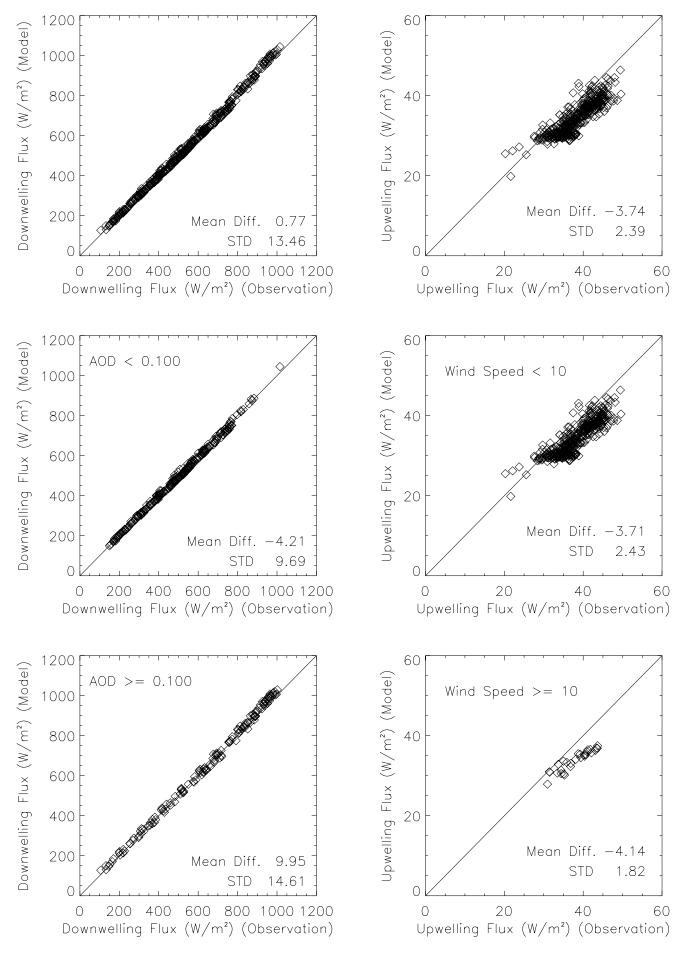








DECEMBER JANUARY FEBRUARY



DATA for 3/1/00 -- 2/28/01